AUTODOC CLUB

How to change front brake discs on **BMW X3 E83** – replacement guide

VIDEO TUTORIAL



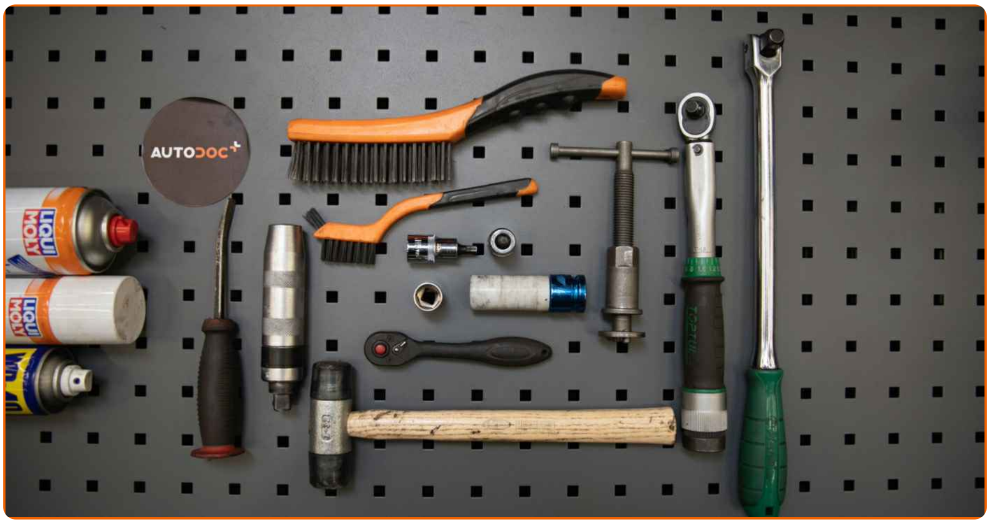
Important!

This replacement procedure can be used for:
BMW X3 (E83) xDrive 20 d, BMW X3 (E83) xDrive 30 d, BMW X3 (E83) xDrive 30 i, BMW X3 (E83) 3.0 i xDrive, BMW X3 (E83) 3.0 d, BMW X3 (E83) 2.0 d, BMW X3 (E83) 2.0 i, BMW X3 (E83) 3.0 si, BMW X3 (E83) 2.5 si, BMW X3 (E83) xDrive 20 i, BMW X3 (E83) xDrive 25 i, BMW X3 (E83) xDrive 18 d, BMW X3 (E83) 2.5 si xDrive

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The steps may slightly vary depending on the car design.

REPLACEMENT: BRAKE DISCS – BMW X3 E83. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- Nylon cleaning brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Drive socket # 16
- HEX bit No.H6
- HEX bit No.H7
- Wheel impact socket #17
- Brake caliper wind back tool
- Ratchet wrench
- Tap wrench
- Rubber mallet
- Impact screwdriver
- Crow bar
- Wheel chock

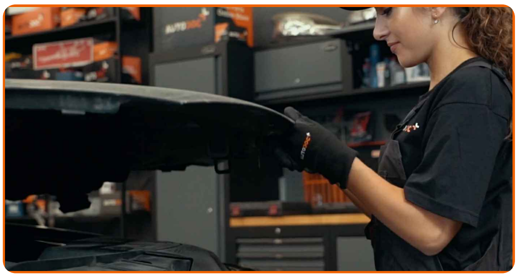
BUY TOOLS

Replacement: brake discs – BMW X3 E83. Tip from AUTODOC:

- Replace the brake disks on the car BMW X3 E83 in complete set for each axis. Regardless of the state of components. This will ensure even braking.
- The replacement procedure is identical for both brake disks on the same axle.
- When changing the brake discs, always replace the brake pads.
- Please note: all work on the car – BMW X3 E83 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the bonnet. Unscrew the brake fluid reservoir cap.



2 Secure the wheels with chocks.

3 Loosen the wheel mounting bolts. Use wheel impact socket #17.



4 Raise the front of the car and secure on supports.



5 Unscrew the wheel bolts.



AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. BMW X3 E83

6 Remove the wheel.



7 Remove the dust boot caps of the brake caliper guide pins. Use a crowbar.



8 Unscrew the brake caliper fastening. Use HEX No.H7. Use a ratchet wrench.



9 Spread the brake pads. Use a crowbar.



10 Detach the brake caliper retaining spring. Use a crowbar.



11 Remove the brake caliper.



Replacement: brake discs – BMW X3 E83. Professionals recommend:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

12 Remove the brake pads.



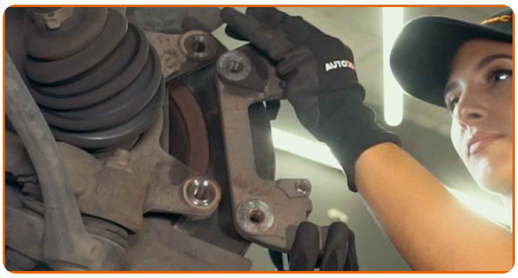
13 Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.



14 Unscrew the caliper bracket fastening. Use a drive socket #16. Use a ratchet wrench. Use a tap wrench.



15 Remove the caliper bracket.



16 Clean the brake disc fasteners. Use a wire brush. Use WD-40 spray.



17 Unscrew the brake disc fastening. Use HEX No.H6. Use an impact screwdriver. Use a rubber mallet.



18

Remove the brake disc.



19

Clean the hub. Use a wire brush. Treat the contacting surface. Use copper grease.



20

Remove anti-corrosion grease from the new brake disk. Use a brake cleaner.



AUTODOC recommends:

- Replacement: brake discs – BMW X3 E83. After applying the spray, wait a few minutes.

21

Install the brake disc.



22

Tighten the brake disc fastening. Use HEX No.H6. Use a torque wrench. Tighten it to 16 Nm torque.



23

Clean the brake caliper bracket from dirt and dust. Use a wire brush. Use a brake cleaner.



Replacement: brake discs – BMW X3 E83. Tip from AUTODOC:

- After applying the spray, wait a few minutes.

24

Install the brake caliper bracket.



25 Tighten the brake caliper bracket. Use a drive socket #16. Use a torque wrench. Tighten it to 110 Nm torque.



26 Treat the brake caliper piston. Use a nylon cleaning brush. Use a brake cleaner.



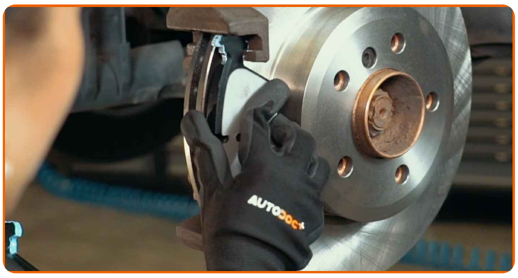
AUTODOC recommends:

- Replacement: brake discs – BMW X3 E83. After applying the spray, wait a few minutes.

27 Press in the brake caliper piston. Use brake caliper wind back tool.



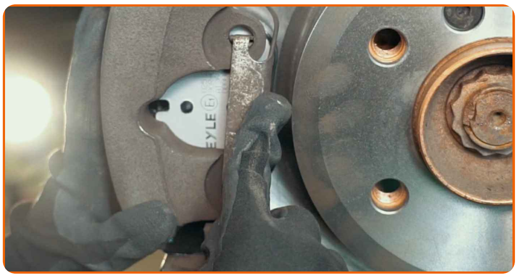
28 Install the brake pads.



29 Install the brake caliper and fix it.



30 Install the brake caliper retaining spring.



31 Tighten the brake caliper fasteners. Use HEX No.H7. Use a torque wrench. Tighten it to 30 Nm torque.



32 Install the dust boot caps of the brake caliper guide pins.



33 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



34 Clean the brake disk surface. Use a brake cleaner.



Replacement: brake discs – BMW X3 E83. AUTODOC recommends:

- After applying the spray, wait a few minutes.

35 Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. BMW X3 E83

36 Screw in the wheel bolts. Use wheel impact socket #17.



37 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 140 Nm torque.



38 Remove the jacks and chocks.



Replacement: brake discs – BMW X3 E83. AUTODOC recommends:

- Without starting the engine, press the brake pedal several times until you feel significant resistance.
- Check the brake fluid level in the expansion tank and refill if necessary.

39

Tighten the brake fluid reservoir cap. Close the hood.



WELL DONE!

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